

# **Power System Testing Solutions**

## **COMPANY PROFILE**

Solution provider for:

- ROTATING MACHINES TESTING
- POWER AND DISTRIBUTION TRANSFORMERS TESTING
- HV/MV CABLES TESTING
- HV/MV SWITCHGEAR TESTING
- PROTECTION SYSTEM TESTING
- IEC61850 Testing

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## 1. About us

Our company **DigiStano** is established to serve the electrical power industry with innovative and advance technology solutions, in addition to providing a professional representation for international high voltage substations solutions manufacturers in UAE market. DigiStano is committed to provide the best and fast track support to customers and thereby help our principals to increase their market share and also bring expert knowledge to the local market.

DigiStano targeted customer segments vary from Utilities such as DEWA, SEWA, TRANSCO, AADC, ADDC, FEWA, to Oil and Gas sector such as ADNOC group, NPCC, Primary and Secondary equipments manufacturers such as SIEMENS, ABB, GE, Schneider Electric, Ducab, Lucy switchgear, Emirates Transformers and contractors such as Danway, EEE, Larsen and Tubro.

DigiStano is managed by a group of experts in the power system field who already have an excellent network in UAE that help in expanding the reach of our solutions.

## 2. Our Brands

**OMICRON** is an international company serving the electrical power industry with innovative testing and diagnostic solutions. The application of OMICRON products allows users to assess the condition of the primary and secondary equipment on their systems with complete confidence. Services offered in the area of consulting, commissioning, testing, diagnosis and training make the product range complete.

Customers in more than 150 countries rely on the company's ability to supply leading-edge technology of excellent quality. Service centers on all continents provide a broad base of knowledge and extraordinary customer support. All of this together with a strong network of sales partners is what has made OMICRON a market leader in the electrical power industry.

**OMICRON**



[www.omicronenergy.com](http://www.omicronenergy.com)

Austria

[www.digistano.com](http://www.digistano.com)

## 3. Products

### 3.1 Rotating Machines Testing

	CPC 100	FRANEO	DIRANA	MPD 800	MONTESTO	MONGEMO	PTM
Contact Resistance Testing	√						√
Pole Drop Testing	√						√
Inter-turn Fault detection		√					√
Dissipation Factor/ Tangent Delta	√*						√
Dielectric Response Analysis			√				√
Sweep Frequency Response Analysis		√					√
Stator Core Measurement	√**						√
PD Measurement				√	√		
Temporary Online PD Monitoring					√		
Permanent Online PD Monitoring						√	

\*Requires CPTD12/15 + CP CR 600

\*\*Requires Stator Core Measurement Upgrade



**CPC 100**



**CP TD12/15**



**CP CR 600**



**FRANEO 800**



**MONTESTO 200**



**MPD 800**



**PTM**



**DIRANA**



**MONGEMO**

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### 3.2 Transformer Testing

	CPC 100	TESTRANO	FRANEO	DIRANA	MPD 800	MONTESTO	PTM
Ratio	✓	✓					✓
Winding Resistance	✓	✓					✓
Excitation Current	✓	✓					✓
Dynamic Resistance Measurement	✓*	✓					✓
Short-Circuit Impedance	✓	✓					✓
Vector Group	✓*	✓					✓
Demagnetizing	✓*	✓					✓
Sweep Frequency Response Analysis			✓				✓
Humidity and Moisture Measurement				✓			✓
Capacitance & Tangent Delta	✓**	✓**		✓***			✓
PD Measurement					✓	✓	
Online PD Temporary Monitoring						✓	

\*Requires CP SB1    \*\*Requires CP TD12/15    \*\*\*Test Voltage of 120V



**CPC 100**



**TESTRANO 600**



**DIRANA**



**FRANEO 800**



**MONTESTO 200**



**MPD 800**



**PTM**



**CP TD12/15**

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## 3.3 Switchgear Testing

	CPC 100	CIBANO	COMPANO	CTANALYZER	VOTANO	MPD 800	MONTESTO	PTM
CB Timing	√*	√						√
CB Contact Resistance	√	√	√					√
Dynamic Resistance Measurement		√						√
CB Travel & Motion Analysis		√						√
CT Testing	√		√**	√				√
VT Testing	√		√**		√			√
PD Measurement						√	√	
Online PD Temporary Monitoring							√	

\*MV CB – No both sides grounded

\*\*Ratio Test



**CPC 100**



**CIBANO 500**



**COMPANO 100**



**CTANALYZER**



**VOTANO 100**



**MPD 800**



**MONTESTO 200**



**PTM**

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### 3.4 Instrument Transformer Testing

	CPC 100	CTANALYZER	VOTANO	COMPANO	DIRANA	MPD 800	MONTESTO	PTM*
CT Ratio Test & Polarity	✓	✓		✓				✓
CT Winding Resistance	✓	✓						✓
CT Excitation Curve	✓	✓						✓
CT Accuracy Class	✓	✓						✓
CT Burden Measurement	✓	✓		✓				✓
VT Ratio & Polarity	✓	✓	✓	✓				✓
VT Winding Resistance	✓		✓					✓
VT Excitation Curve			✓				✓	
VT Accuracy Class			✓				✓	
VT Burden Measurement	✓		✓	✓				✓
CT/VT Paper Insulation					✓			
CT/VT Capacitance & Tangent Delta	✓**				✓***			✓
PD Measurement						✓	✓	
Temporary PD Monitoring							✓	

\*For CPC 100

\*\*CP TD12/15 required

\*\*\*Test Voltage of 120V



**CPC 100**



**CTANALYZER**



**VOTANO 100**



**COMPANO 100**



**DIRANA**



**MPD 800**



**MONTESTO 200**



**PTM**

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### 3.5 Cables Testing

	CPC 100	MPD 800	MONTESTO 200	DIRANA	MONCABLO	PTM
Impedance Measurement	√*					√
Capacitance and Tangent Delta	√**			√***		√
Dielectric Response Analysis				√		√
PD Measurement		√	√			
PD Temporary Monitoring			√			
Permanent Online PD Monitoring					√	

\*with CP CU1

\*\*with CP TD12/15

\*\*\*with 120V Test Voltage



**CPC 100**



**MPD 800**



**MONTESTO 200**



**DIRANA**



**PTM**



**CP TD12/15**



**CP CU1**



**MONCABLO**

[www.digistano.com](http://www.digistano.com)

### 3.6 Relays, Meters, Power Quality and Secondary Injection

	CMC 356	CMC 256+	CMC 430	CMC 353	CMC 310	CMC 850***
<b>Protection Relays Testing</b>	√	√	√**	√**	√**	√
<b>PTL Testing</b>	√	√	√	√		√
<b>Manual Control</b>	√	√		√	√	√
<b>Energy Meter Testing</b>	√	√	√	√	√	
<b>Transducer Testing</b>	√*	√	√	√*		
<b>Power Quality Testing</b>	√	√	√	√		√
<b>Analogue Measurement</b>	√*	√	√	√*		
<b>GOOSE Testing</b>	√	√	√	√	√	√
<b>Sampled Values Testing</b>	√	√	√	√	√	√
<b>Network Simulation</b>	√	√	√	√		√

\*ELT-option Required

\*\*Except Differential

\*\*\*Only Sample Values (IEC61850-9-2)



**CMC 256+**



**CMC 356**



**CMC 353**



**CMC 430**



**CMC 310**



**CMC 850**

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## 3.7 IEC61850 Testing and Cyber Security

	CMC Device	DANEO 400	IEDSCOUT	STATIONSCOUT	ISIO 200	STATIONGUARD
GOOSE Testing	√	√	√	√	√	
Sampled Values Testing	√	√				
Client/ Server Communications	√		√	√		
Binary I/O Extension					√	
Cyber Security						√



CMC device



DANEO 400



IEDSCOUT



STATIONSCOUT



ISIO 200



STATIONGUARD

## 4. Training

DigiStano Team of engineers are experienced with substation testing and can share their knowledge with electrical testing teams. The list of courses that we offer currently:

- Protection Systems Testing
- IEC 61850 Testing
- Instrument Transformer Testing (CT/VT)
- Power and Distribution Transformers Testing
- Circuit Breaker Testing (MV/HV)
- Transmission Lines Testing
- HV/MV Cables Testing
- Partial Discharge Measurement

We do offer attendance certification for only attending the training session, in addition we do offer a training Completion Certification which is given based on examination results, this is offered on demand basis.



Attendance Certificate

### Over Current Protection Testing with CMC 356

Presented to:



Date: 16<sup>th</sup> – 18<sup>th</sup> June 2020

Location: Dubai – United Arab Emirates



Mohammad Al-Fayoumi  
Managing Director, DigiStano Electric



Completion Certificate

### Over Current Protection Testing with CMC 356

Presented to:



**PASS**

Date: 16<sup>th</sup> – 18<sup>th</sup> June 2020

Location: Dubai – United Arab Emirates



Mohammad Al-Fayoumi  
Managing Director, DigiStano Electric



## 5. Repair and Calibration

We are currently developing a state-of-the-art products service center in UAE to serve the customers with fast track local support for repair and calibration of their test equipments. This service center will provide warranty related services and support which reduces the out of site time for the test equipments

## 6. Services

Our team of engineers are available to provide onsite testing as per the requirements of the customers, we focus on specialized areas such as:

- Partial Discharge Measurement services
- IEC 61850 testing services
- Specialized Protection Testing services and building automatic testing templates

## 7. Rental

Full range of equipments with valid calibration certificates are available at very competitive rates for our customers, please contact us for:

- Protection relays test sets
- Transformer Test sets
- Circuit Breaker Test sets
- HV/MV cables Test sets
- Substation Grounding and Step & Touch Voltage Test sets
- Instrument Transformers (CT/VT) Test sets
- Partial Discharge Measurement and Temporary PD Monitoring System

## 8. Contact details

### 8.1 Dubai

#### **DIGISTANO ELECTRIC TRADING FZCO**

Office 715, 7<sup>th</sup> floor, SIT Tower

PO Box 341321

Dubai Silicon Oasis

Dubai, United Arab Emirates

Email: [sales@digistano.com](mailto:sales@digistano.com)

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### 8.2 Abu Dhabi

#### **DIGISTANO ENERGY TRADING AND SERVICES LLC**

Musaffah – Abu Dhabi

Email: [sales@digistano.com](mailto:sales@digistano.com)

## 9. Representation Certificate



**OMICRON**

To whom it may concern

9 March 2020

**CERTIFICATE OF REPRESENTATION**

Whereas **OMICRON electronics GmbH** who is an established and reputable manufacturer of products primarily used by electric utilities and other industries to test component parts of electrical systems having its head office at

Oberes Ried 1  
A-6833 Klaus  
Austria

do hereby confirm that

**DigiStano Electric Trading FZCO**  
(including its Abu Dhabi branch "DigiStano Energy Trading and Services L.L.C.")  
having its head office at



SIT Tower  
7<sup>th</sup> floor, office 715  
Dubai Silicon Oasis  
Dubai  
UAE

is our exclusive Distributor in the United Arab Emirates (including after sales services and support) according to the Distribution Agreement dated February 26, 2019. The Distribution Agreement is valid for an unlimited period of time and may be terminated by either party considering a notice period of three months.

This Certificate is valid until March 31, 2022.

With best regards,

OMICRON electronics GmbH

ppa. Jakob Halder  
Financial Officer

OMICRON electronics GmbH  
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
We like to hear from you.


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And exchange knowledge.

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